

ABSTRACT OF THE DISCLOSURE

5 A microscope, especially a microscope that is used for inspection in
semiconductor manufacture is disclosed. The microscope comprises a pulsed laser
for the purpose of illumination, preferably in the UV range. At least one rotating
diffusion disk is disposed downstream of the laser so as to homogenize the
illumination. Preferably, two rotating diffusion disks of opposite rotational sense are
disposed in the illumination beam path either directly or indirectly one behind the
10 other.

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